EPO - DG 1 09.03.2011 (09:03:14)

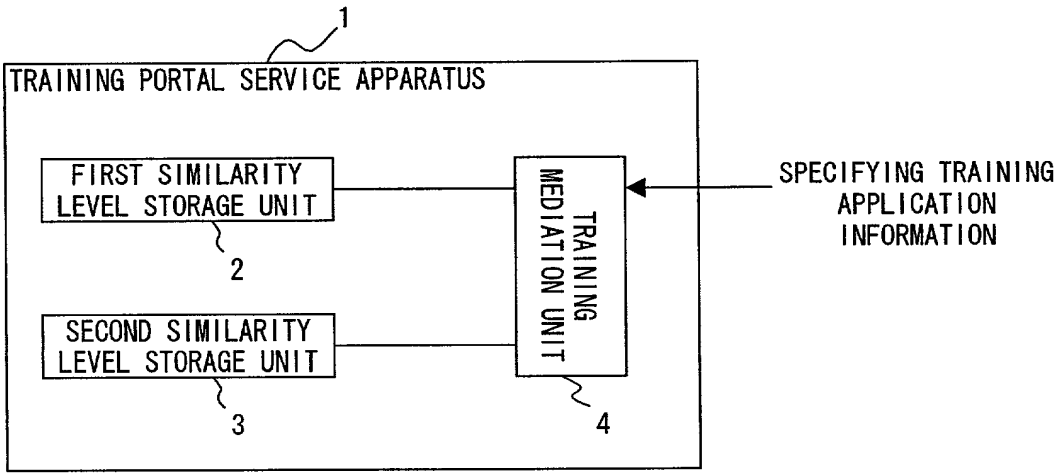

FIG. 1

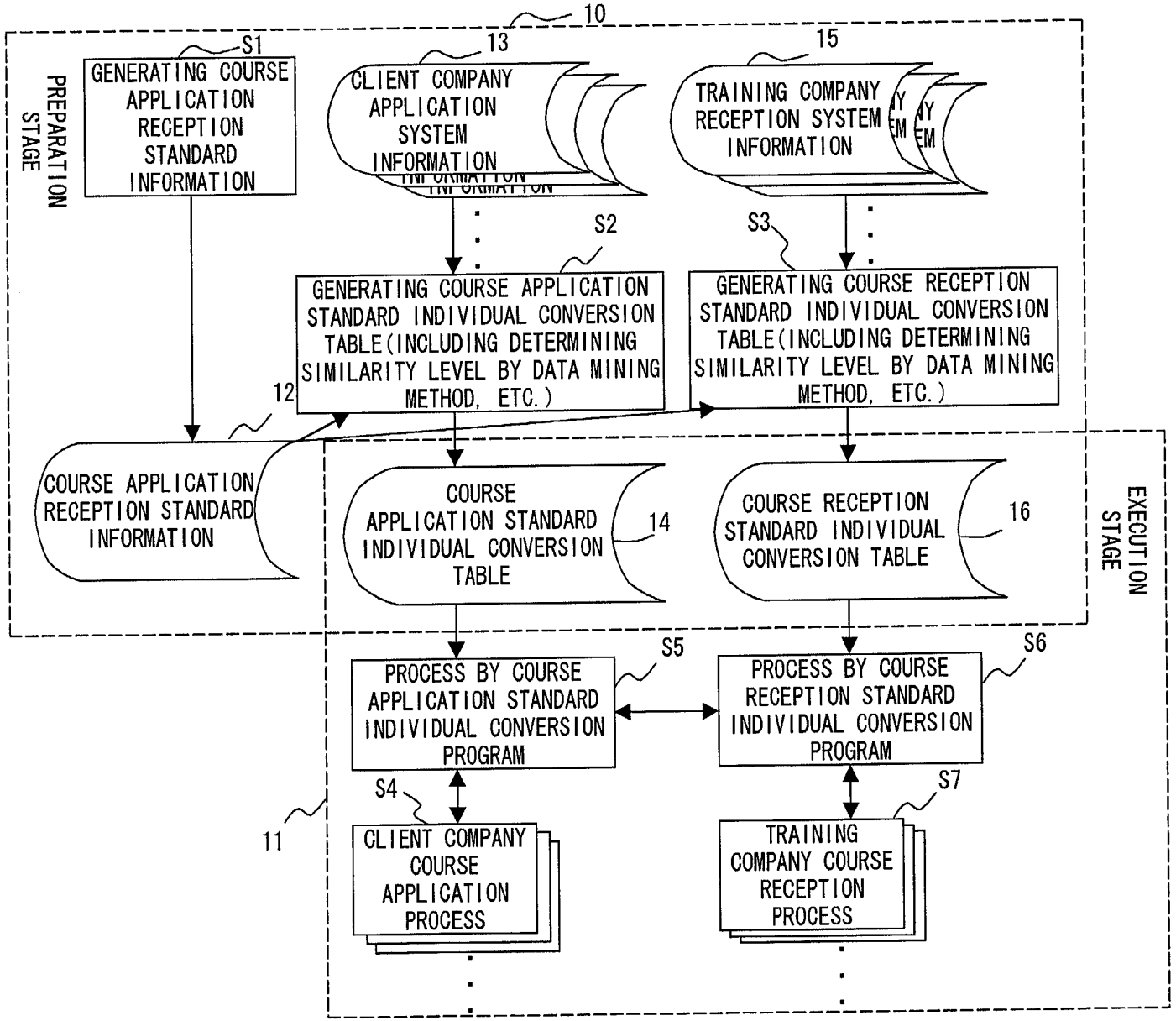
10
PREPARATION STAGE
S1
GENERATING COURSE APPLICATION RECEPTION STANDARD INFORMATION
13
CLIENT COMPANY APPLICATION SYSTEM INFORMATION
15
TRAINING COMPANY RECEPTION SYSTEM INFORMATION
S2
S3
GENERATING COURSE APPLICATION STANDARD INDIVIDUAL CONVERSION TABLE(INCLUDING DETERMINING SIMILARITY LEVEL BY DATA MINING METHOD, ETC.)
GENERATING COURSE RECEPTION STANDARD INDIVIDUAL CONVERSION TABLE(INCLUDING DETERMINING SIMILARITY LEVEL BY DATA MINING METHOD, ETC.)
12
COURSE APPLICATION RECEPTION STANDARD INFORMATION
COURSE APPLICATION STANDARD INDIVIDUAL CONVERSION TABLE
14
COURSE RECEPTION STANDARD INDIVIDUAL CONVERSION TABLE
16
EXECUTION STAGE
S5
PROCESS BY COURSE APPLICATION STANDARD INDIVIDUAL CONVERSION PROGRAM
S6
PROCESS BY COURSE RECEPTION STANDARD INDIVIDUAL CONVERSION PROGRAM
S4
S7
11
CLIENT COMPANY COURSE APPLICATION PROCESS
TRAINING COMPANY COURSE RECEPTION PROCESS

FIG. 2

JP2003-345904

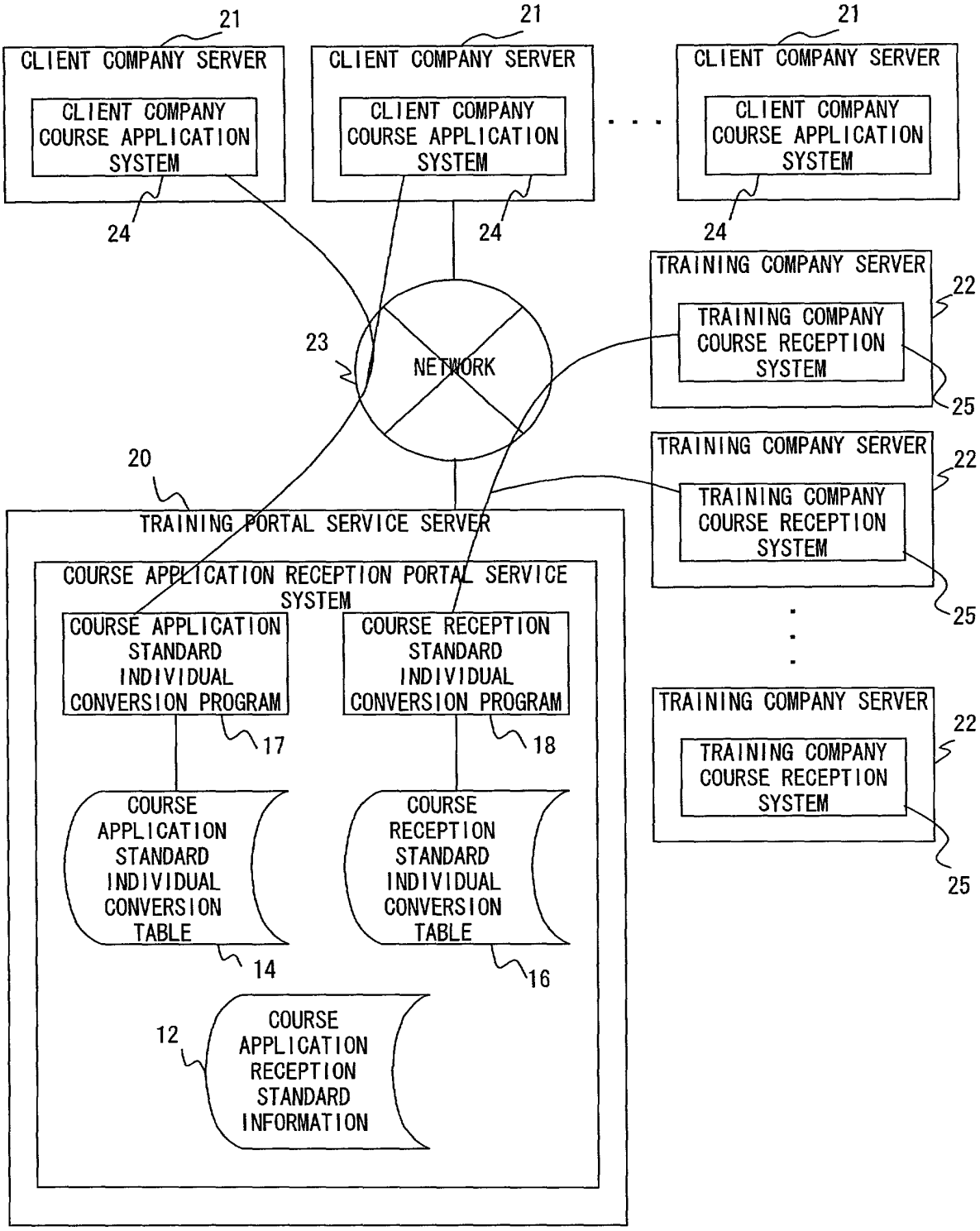

FIG. 3

JP2013-218401

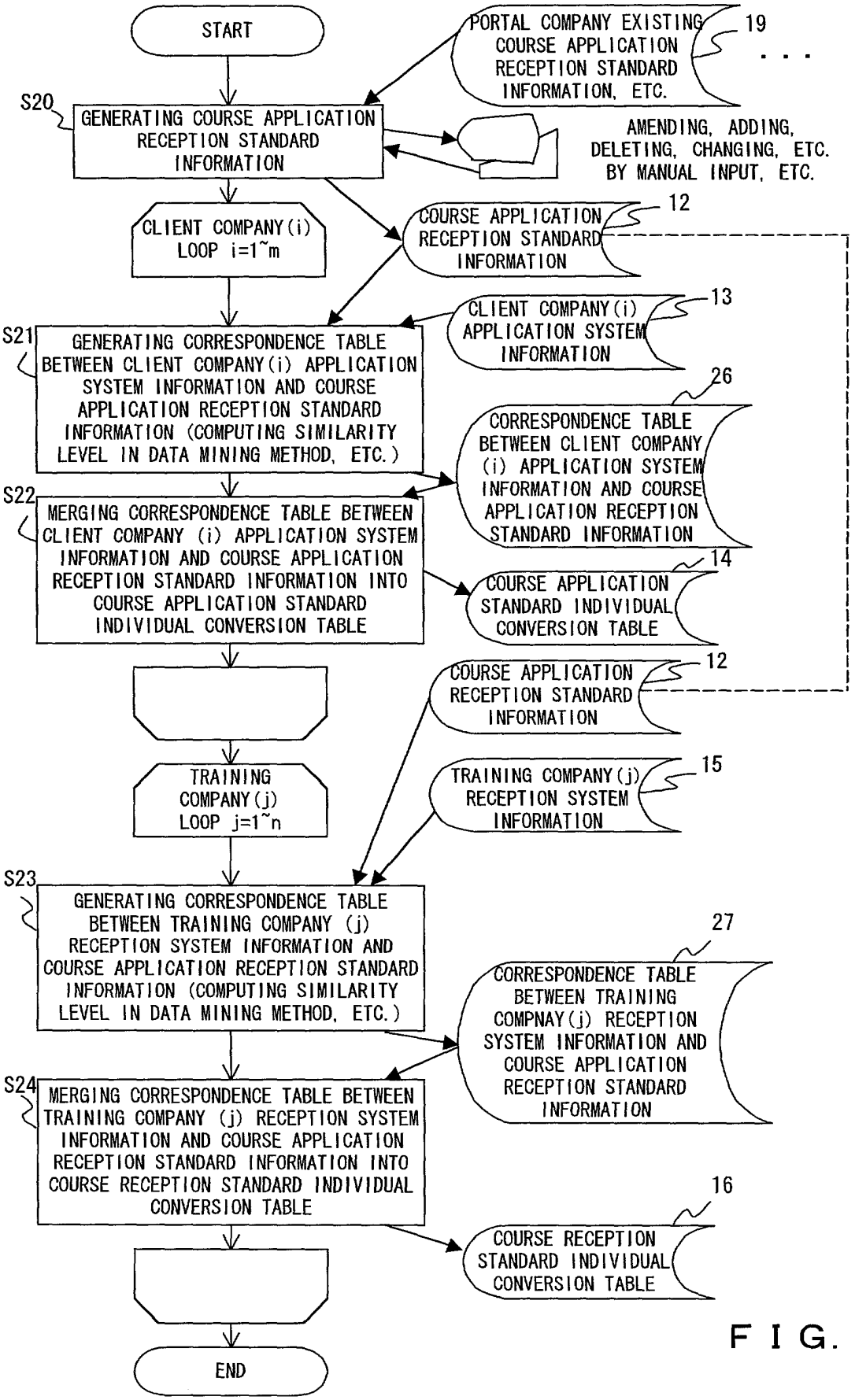

FIG. 4

EPO - DG 1 03.09.2007 15:26:09.0

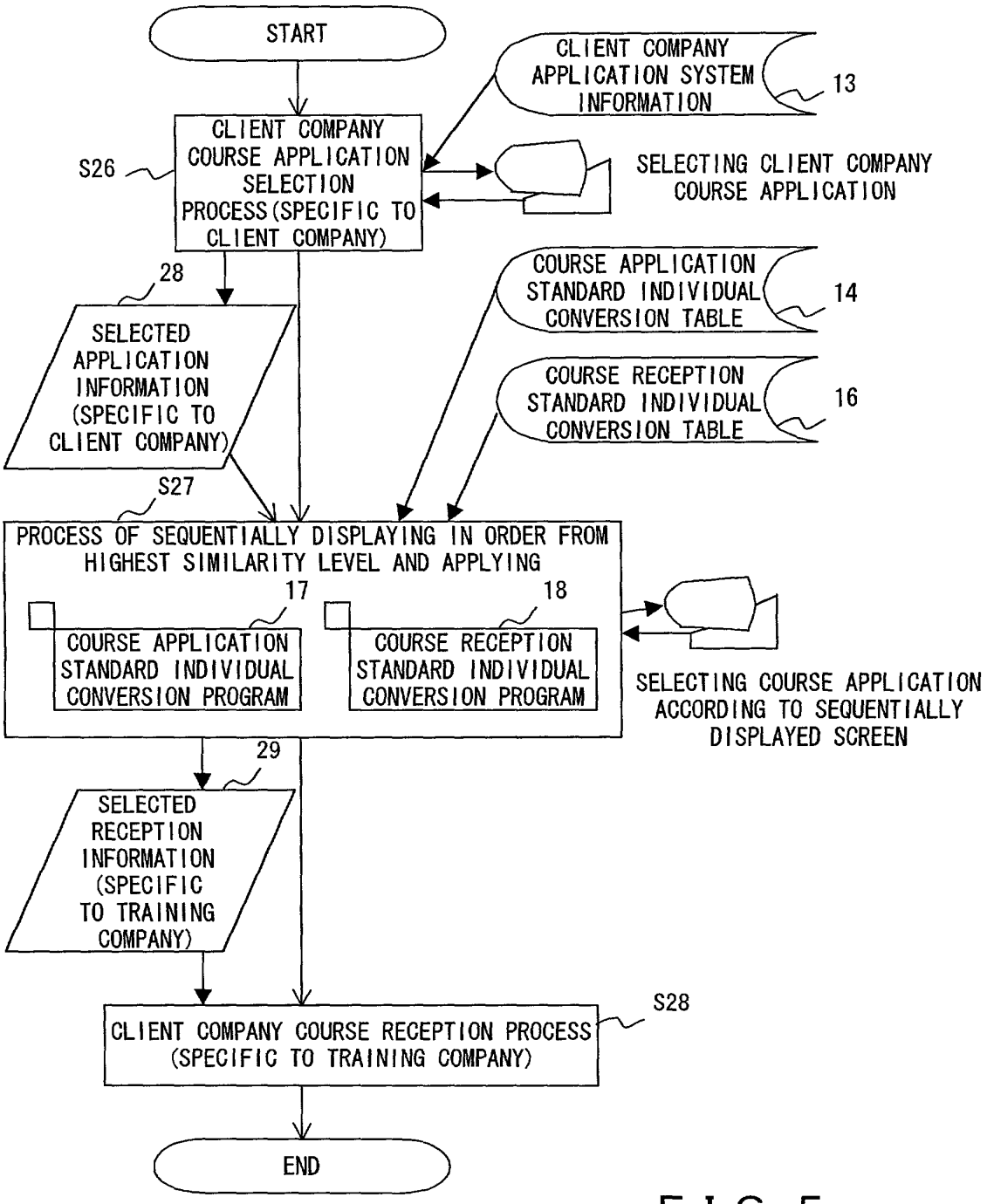

FIG. 5

Patent Application Publication

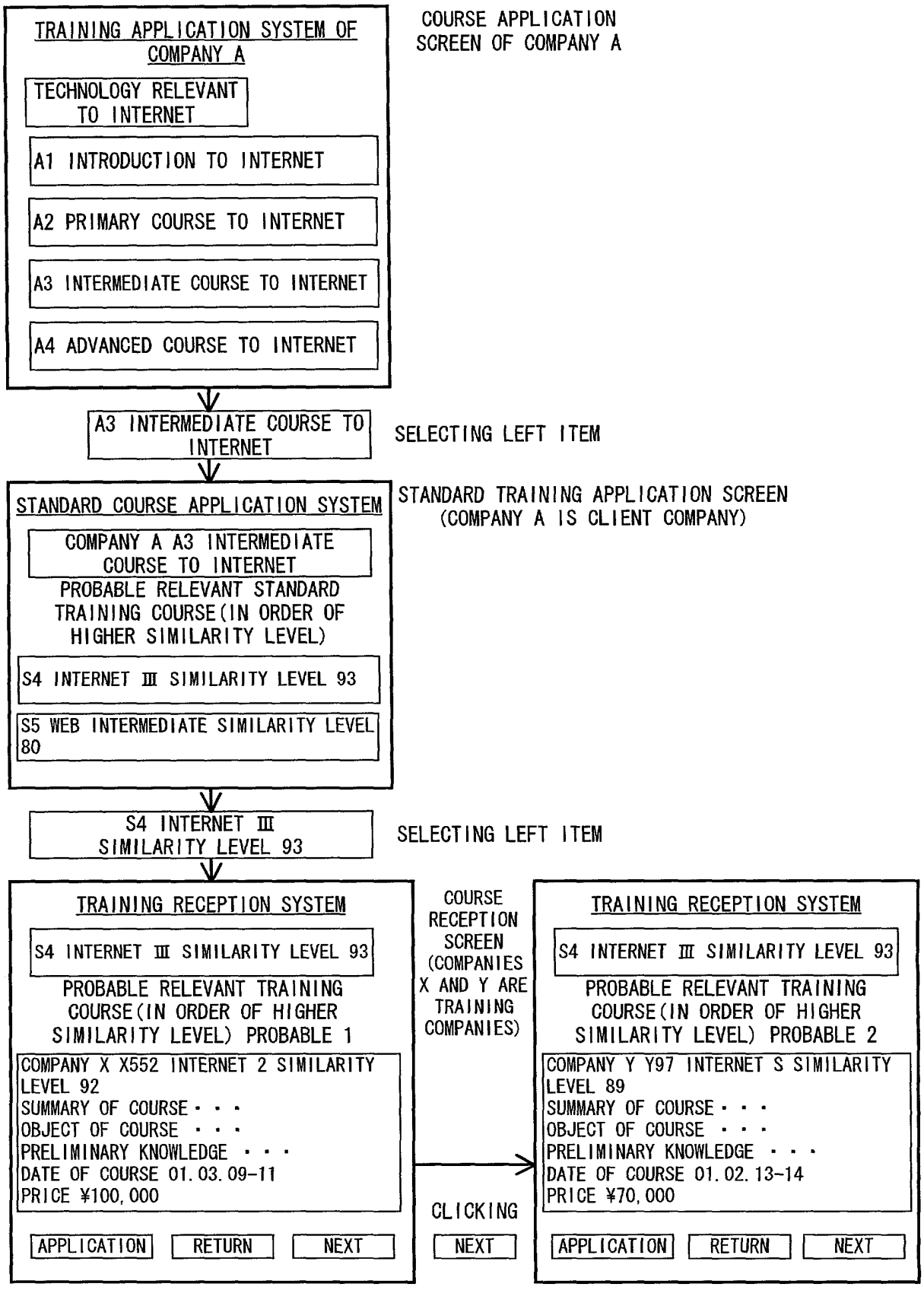

FIG. 6

COURSE CODE	TITLE OF COURSE	SUMMARY OF COURSE	OBJECT OF COURSE	PRELIMINARY KNOWLEDGE	NUMBER OF DAYS FOR COURSE	PRICE (UNIT: ¥1,000)	OTHERS
S1	INTRO-DUCTION TO COMPUTER	PRIMARY KNOWLEDGE ABOUT COMPUTER..	FUNCTIONS OF COMPUTER, MAIN COMPONENTS, ETC. ..	NONE	2	50	
S4	INTERNET III	BASIC TECHNOLOGY REQUIRED TO PRODUCE INTERNET SYSTEM...	CAN PRODUCE INTERNET SYSTEM BY YOURSELF..	BASIC INTERNET	3	100	

FIG. 7

COURSE CODE	TITLE OF COURSE	SUMMARY OF COURSE	OBJECT OF COURSE	PRELIMINARY KNOWLEDGE	OTHERS
A1	INTRO-DUCTION TO COMPUTER	PRIMARY KNOWLEDGE ABOUT COMPUTER..	FUNCTIONS OF COMPUTER, MAIN COMPONENTS, ETC. ..	NONE	
A3	INTER-MEDIATE COURSE TO INTERNET	IN PRODUCING INTERNET SYSTM..	CAN PRODUCE BY YOURSELF	BASIC KONWLEDGE ABOUT INTERNET	

FIG. 8

STANDARD COURSE CODE	CLIENT COMPANY COURSE CODE	CLIENT COMPANY NAME	SIMILARITY LEVEL	OTHERS
S1				
S4	A3	COMPANY A	93	
S4	B9	COMPANY B	91	
S8	A3	COMPANY A	80	

FIG. 9

COURSE CODE	TITLE OF COURSE	SUMMARY OF COURSE	OBJECT OF COURSE	PRELIMINARY KNOWLEDGE	NUMBER OF DAYS FOR COURSE	PRICE (UNIT: ¥1,000)	DATE OF COURSE	OTHERS
X001								
X552	INTERNET 2	IN PRODUCING INTERNET SYSTEM...	PRODUCING INTERNET SYSTEM...	BASIC KNOWLEDGE ABOUT INTERNET..	3	100	MAY 9 TO 11, 2001	

FIG. 10

STANDARD COURSE CODE	TRAINING COMPANY COURSE CODE	NAME OF TRAINING COMPANY	SIMILARITY LEVEL	OTHERS
S1				
S4	X552	COMPANY X	92	
S4	X97	COMPANY Y	89	

FIG. 11

JP2003-173404

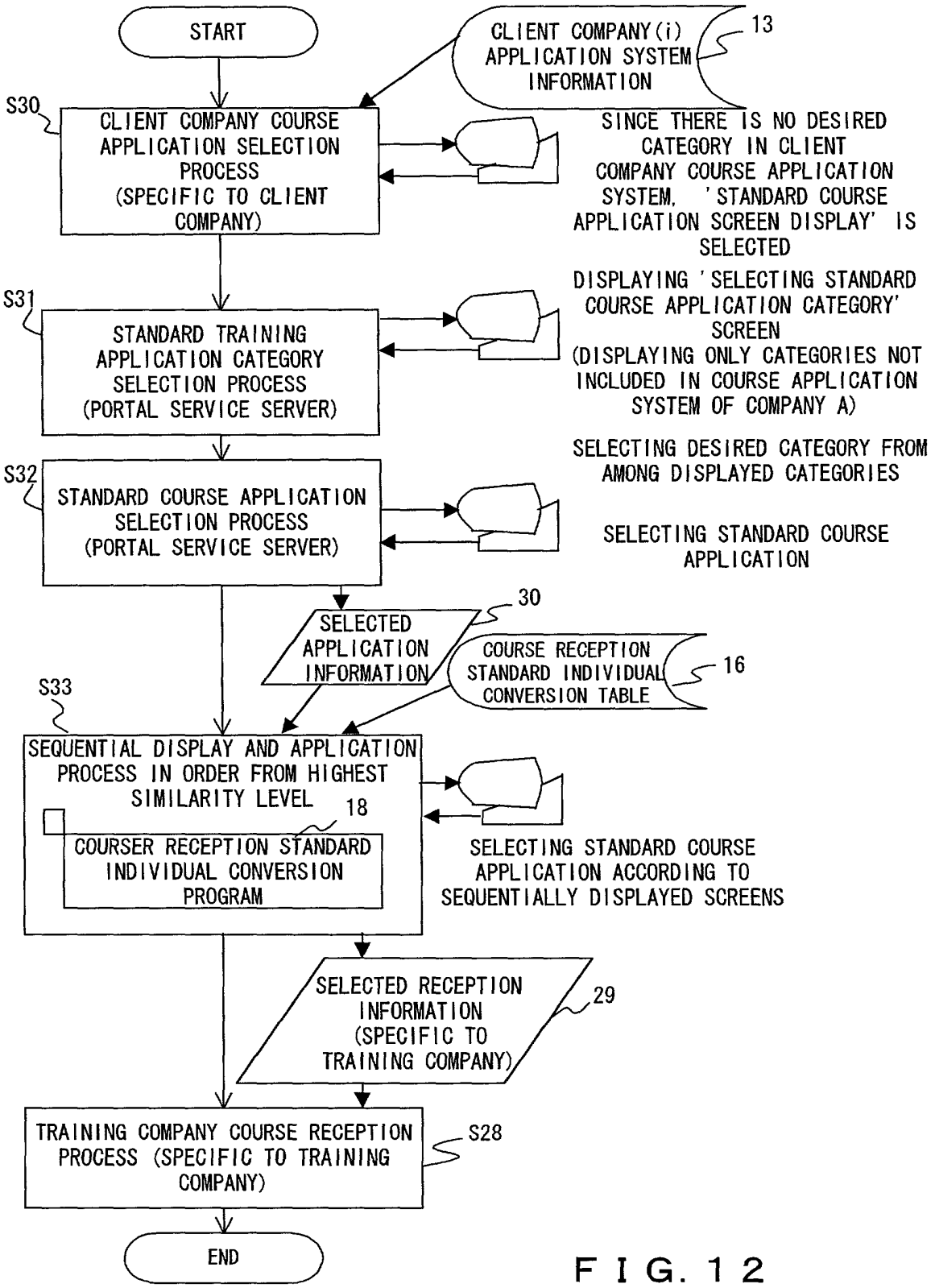

FIG. 12

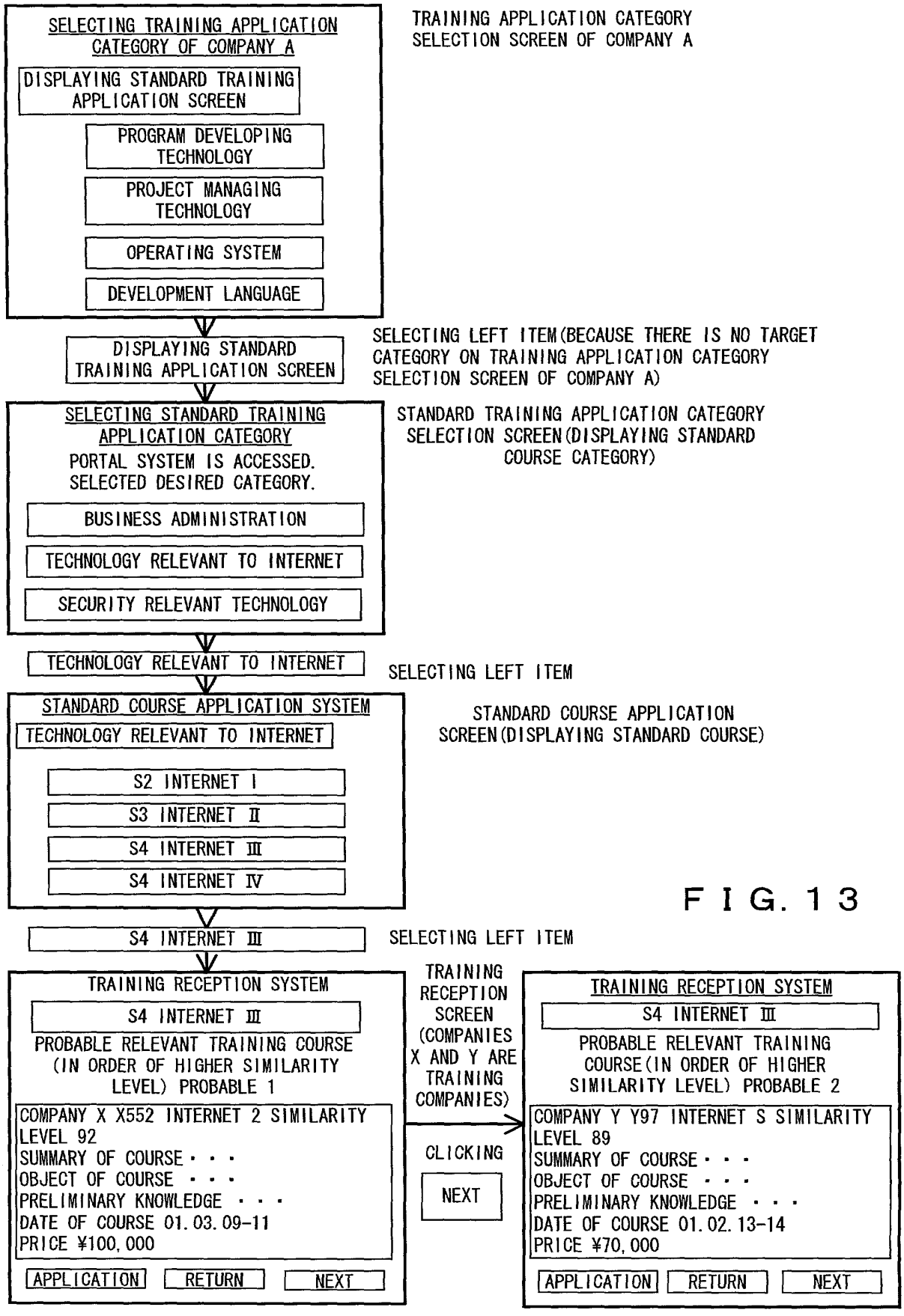
SELECTING TRAINING APPLICATION CATEGORY OF COMPANY A
DISPLAYING STANDARD TRAINING APPLICATION SCREEN
PROGRAM DEVELOPING TECHNOLOGY
PROJECT MANAGING TECHNOLOGY
OPERATING SYSTEM
DEVELOPMENT LANGUAGE
TRAINING APPLICATION CATEGORY SELECTION SCREEN OF COMPANY A
DISPLAYING STANDARD TRAINING APPLICATION SCREEN
SELECTING LEFT ITEM(BECAUSE THERE IS NO TARGET CATEGORY ON TRAINING APPLICATION CATEGORY SELECTION SCREEN OF COMPANY A)
SELECTING STANDARD TRAINING APPLICATION CATEGORY
PORTAL SYSTEM IS ACCESSED. SELECTED DESIRED CATEGORY.
BUSINESS ADMINISTRATION
TECHNOLOGY RELEVANT TO INTERNET
SECURITY RELEVANT TECHNOLOGY
STANDARD TRAINING APPLICATION CATEGORY SELECTION SCREEN(DISPLAYING STANDARD COURSE CATEGORY)
TECHNOLOGY RELEVANT TO INTERNET
SELECTING LEFT ITEM
STANDARD COURSE APPLICATION SYSTEM
TECHNOLOGY RELEVANT TO INTERNET
S2 INTERNET I
S3 INTERNET II
S4 INTERNET III
S4 INTERNET IV
STANDARD COURSE APPLICATION SCREEN(DISPLAYING STANDARD COURSE)
S4 INTERNET III
SELECTING LEFT ITEM
TRAINING RECEPTION SYSTEM
S4 INTERNET III
PROBABLE RELEVANT TRAINING COURSE (IN ORDER OF HIGHER SIMILARITY LEVEL) PROBABLE 1
COMPANY X X552 INTERNET 2 SIMILARITY LEVEL 92
SUMMARY OF COURSE・・・
OBJECT OF COURSE ・・・
PRELIMINARY KNOWLEDGE ・・・
DATE OF COURSE 01.03.09-11
PRICE ¥100,000
APPLICATION
RETURN
NEXT
TRAINING RECEPTION SCREEN (COMPANIES X AND Y ARE TRAINING COMPANIES)
CLICKING
NEXT
TRAINING RECEPTION SYSTEM
S4 INTERNET III
PROBABLE RELEVANT TRAINING COURSE(IN ORDER OF HIGHER SIMILARITY LEVEL) PROBABLE 2
COMPANY Y Y97 INTERNET S SIMILARITY LEVEL 89
SUMMARY OF COURSE・・・
OBJECT OF COURSE ・・・
PRELIMINARY KNOWLEDGE ・・・
DATE OF COURSE 01.02.13-14
PRICE ¥70,000
APPLICATION
RETURN
NEXT

FIG. 13

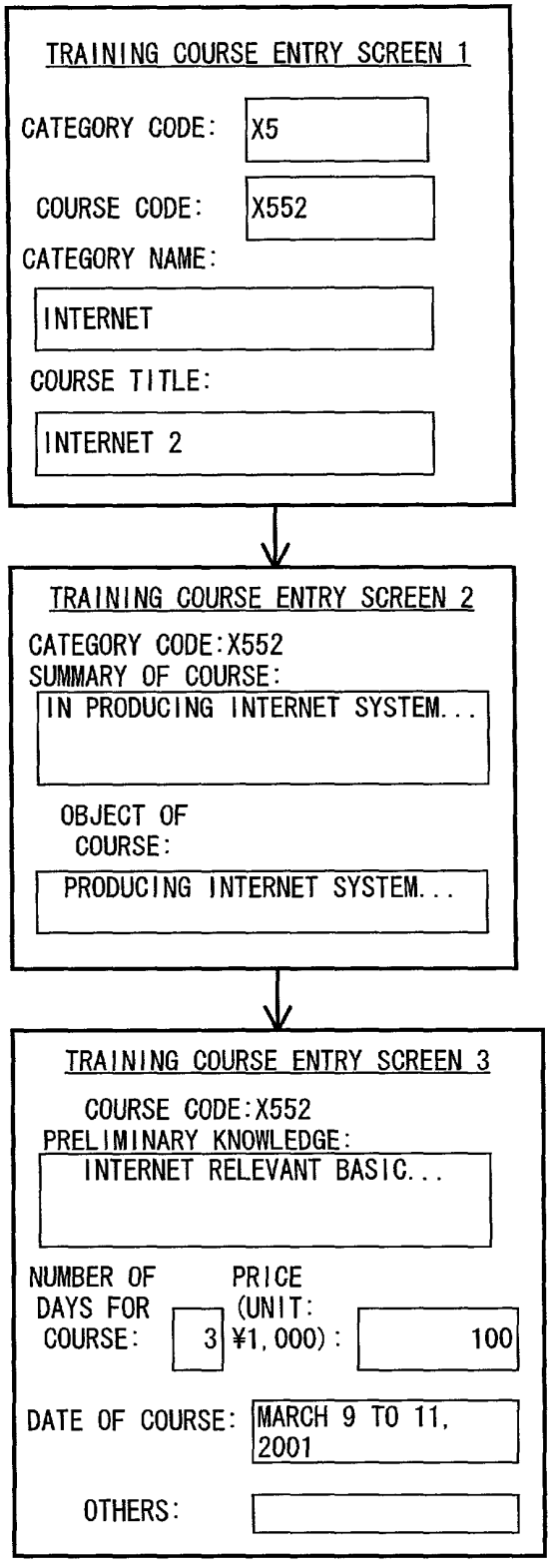
TRAINING COURSE ENTRY SCREEN 1
CATEGORY CODE:
X5
COURSE CODE:
X552
CATEGORY NAME:
INTERNET
COURSE TITLE:
INTERNET 2
TRAINING COURSE ENTRY SCREEN 2
CATEGORY CODE:X552
SUMMARY OF COURSE:
IN PRODUCING INTERNET SYSTEM...
OBJECT OF COURSE:
PRODUCING INTERNET SYSTEM...
TRAINING COURSE ENTRY SCREEN 3
COURSE CODE:X552
PRELIMINARY KNOWLEDGE:
INTERNET RELEVANT BASIC...
NUMBER OF DAYS FOR COURSE:
3
PRICE (UNIT: ¥1,000):
100
DATE OF COURSE:
MARCH 9 TO 11, 2001
OTHERS:

FIG. 14

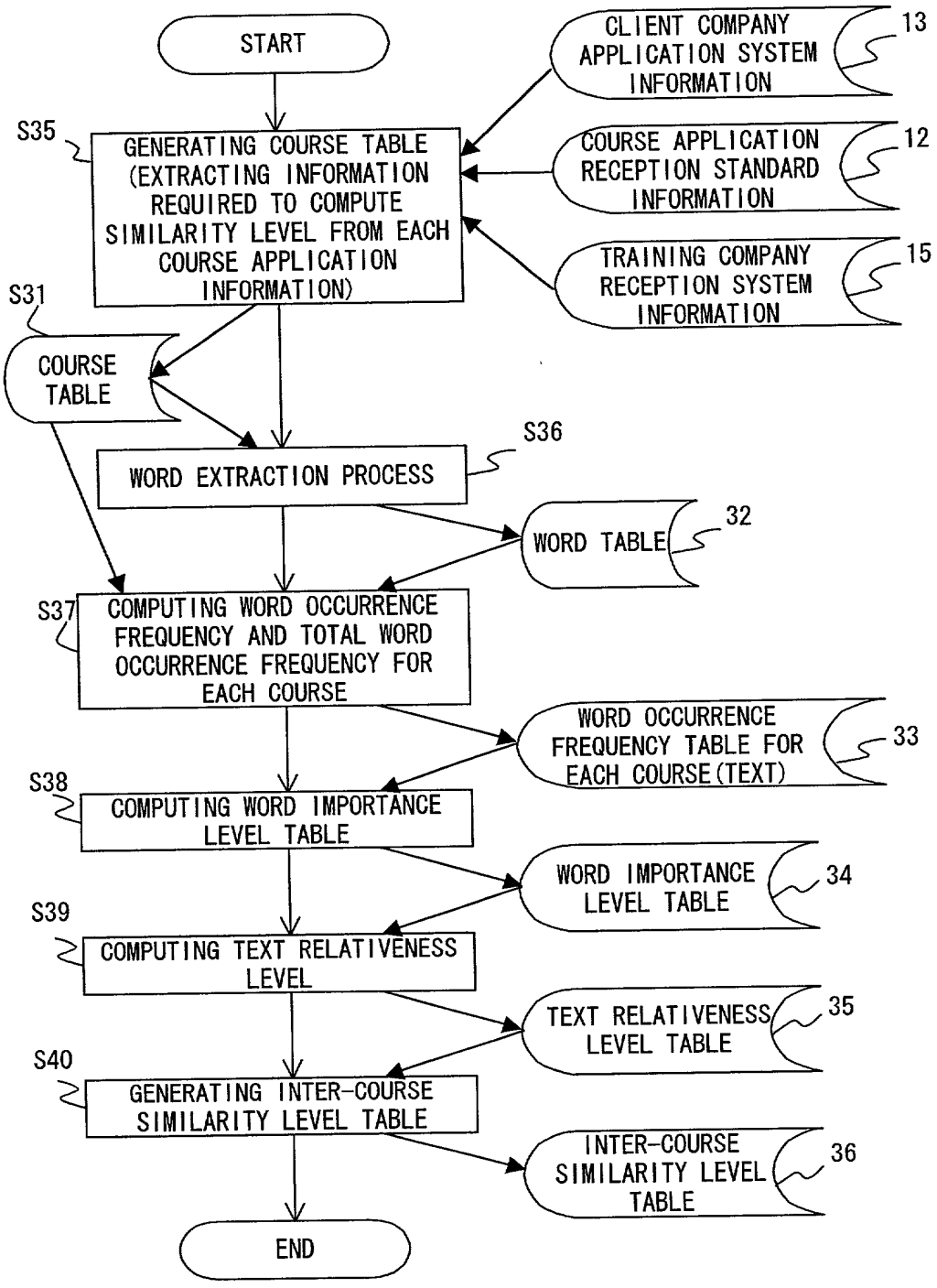
START
CLIENT COMPANY APPLICATION SYSTEM INFORMATION
13
S35
GENERATING COURSE TABLE (EXTRACTING INFORMATION REQUIRED TO COMPUTE SIMILARITY LEVEL FROM EACH COURSE APPLICATION INFORMATION)
COURSE APPLICATION RECEPTION STANDARD INFORMATION
12
TRAINING COMPANY RECEPTION SYSTEM INFORMATION
15
S31
COURSE TABLE
S36
WORD EXTRACTION PROCESS
WORD TABLE
32
S37
COMPUTING WORD OCCURRENCE FREQUENCY AND TOTAL WORD OCCURRENCE FREQUENCY FOR EACH COURSE
WORD OCCURRENCE FREQUENCY TABLE FOR EACH COURSE(TEXT)
33
S38
COMPUTING WORD IMPORTANCE LEVEL TABLE
WORD IMPORTANCE LEVEL TABLE
34
S39
COMPUTING TEXT RELATIVENESS LEVEL
TEXT RELATIVENESS LEVEL TABLE
35
S40
GENERATING INTER-COURSE SIMILARITY LEVEL TABLE
INTER-COURSE SIMILARITY LEVEL TABLE
36
END

FIG. 15

COURSE SERIAL NUMBER	COMPANY NAME	COURSE CODE	TEXT	OTHERS
0001	COMPANY S	S1	INTRODUCTION TO COMPUTER PRIMARY KNOWLEDGE ABOUT COMPUTER … OTHER FUNCTIONS, MAIN COMPONENTS, ETC. OF COMPUTER … ⋮	
0004	COMPANY S	S4	INTERNET Ⅲ BASIC TECHNOLOGY REQUIRED TO PRODUCE INTERNET SYSTEM… POSSIBLE TO PRODUCE INTERNET SYSTEM BY YOURSELF… ⋮	
1208	COMPANY A	A1	INTRODUCTION TO COMPUTER PRIMARY KNOWLEDGE ABOUT COMPUTER … OTHER FUNCTIONS, MAIN COMPONENTS, ETC. OF COMPUTER… ⋮	
1210	COMPANY A	A3	INTERMEDIATE COURSE TO INTERNET IN PRODUCING INTERNET SYSTEM… DESIGNING BY YOURSELF… ⋮	
8417	COMPANY X	X552	INTERNET 2 IN PRODUCING INTERNET SYSTEM… PRODUCING INTERNET SYSTEM… ⋮	

FIG. 16

WORD NUMBER	WORD
1	INSTRUCTION TO COMPUTER
2	COMPUTER
3	PRIMARY STEP
4	KNOWLEDGE
5	FUNCTION

FIG. 17

COURSE (TEXT) SERIAL NUMBER	WORD 1	WORD 2			WORD j			WORD m	WORD OCCURRENCE FREQUENCY FOR EACH COURSE (TEXT)
0001	1.58%	3.17%			3.17%			1.58%	100%
0002		6.66%							100%
0003	6.2%								100%
0004		3.85%			6.41%			1.28%	100%
i		5.49%			2.20%			5.49%	100%
n									
q(w)	0.041%	0.448%			0.272%			0.231%	100%

FIG. 18

COURSE (TEXT) SERIAL NUMBER	WORD 1	WORD 2			WORD j			WORD m
0001	0.251	0.321			0.321			0.251
0002		0.231						
0003	0.211							
0004		0.151			0.326			0.072
i		0.134			0.053			0.134
S' (T, w)	412	4582			2539			2911

FIG. 19

TEXT SERIAL NUMBER															
0001	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
		–	–	–	–	–	–	–	–	–	–	–	–	–	–
			–	–	–	–	–	–	–	–	–	–	–	–	–
0004	78			–	–	–	–	–	–	–	–	–	–	–	–
					–	–	–	–	–	–	–	–	–	–	–
						–	–	–	–	–	–	–	–	–	–
							–	–	–	–	–	–	–	–	–
1208	85			75				–	–	–	–	–	–	–	–
									–	–	–	–	–	–	–
1210	70			93				81		–	–	–	–	–	–
											–	–	–	–	–
												–	–	–	–
													–	–	–
8417	75			92				76		91				–	–
															–
TEXT SERIAL NUMBER	0001			0004				1208		1210				8417	

FIG. 20

COURSE SERIAL NUMBER															
0001	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
		–	–	–	–	–	–	–	–	–	–	–	–	–	–
			–	–	–	–	–	–	–	–	–	–	–	–	–
0004	78			–	–	–	–	–	–	–	–	–	–	–	–
					–	–	–	–	–	–	–	–	–	–	–
						–	–	–	–	–	–	–	–	–	–
							–	–	–	–	–	–	–	–	–
1208	85			75				–	–	–	–	–	–	–	–
									–	–	–	–	–	–	–
1210	70			93				81		–	–	–	–	–	–
											–	–	–	–	–
												–	–	–	–
													–	–	–
8417	75			92				76		91				–	–
															–
COURSE SERIAL NUMBER	0001			0004				1208		1210				8417	

FIG. 21

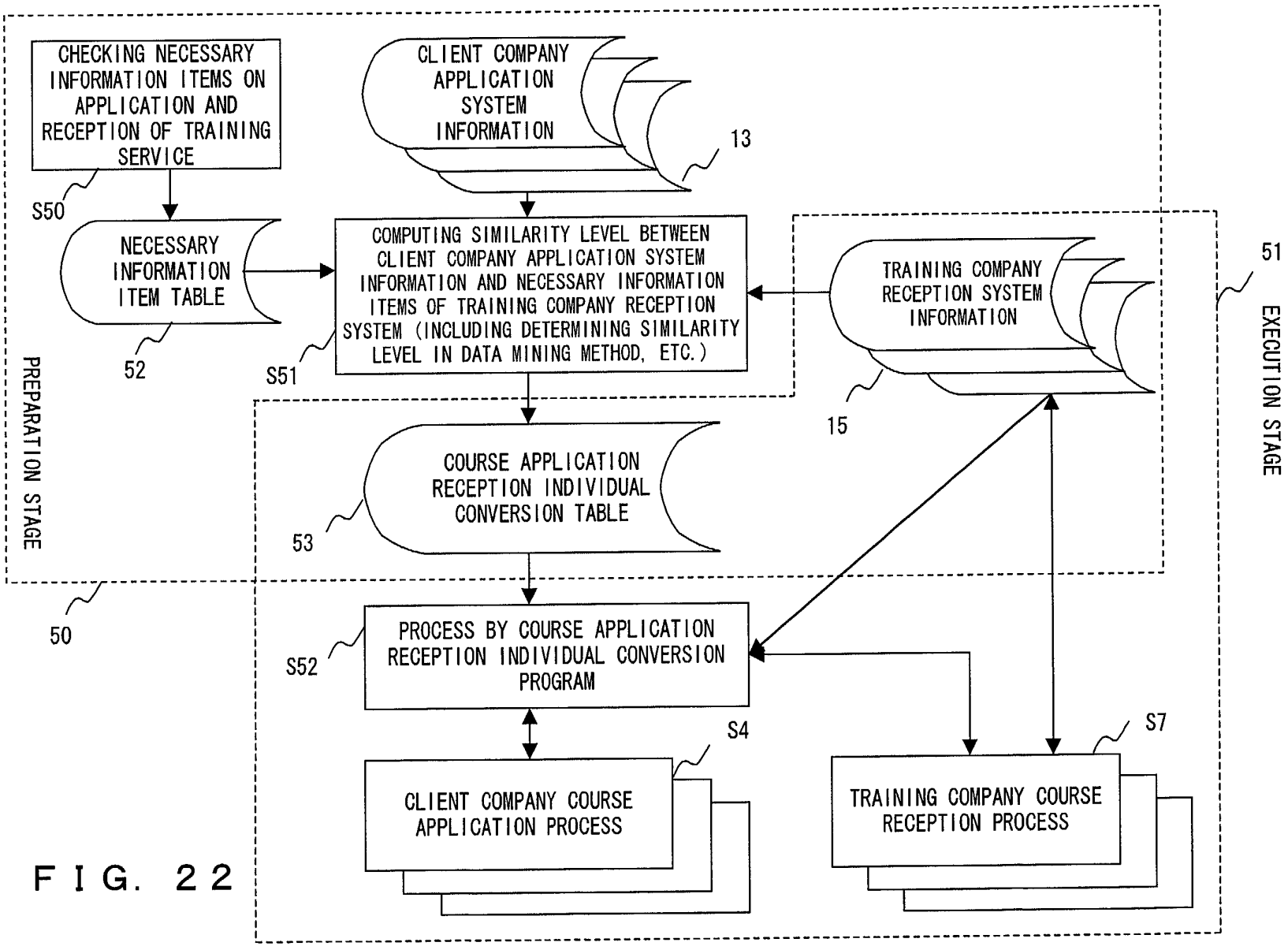
CHECKING NECESSARY INFORMATION ITEMS ON APPLICATION AND RECEPTION OF TRAINING SERVICE
S50
NECESSARY INFORMATION ITEM TABLE
52
CLIENT COMPANY APPLICATION SYSTEM INFORMATION
13
COMPUTING SIMILARITY LEVEL BETWEEN CLIENT COMPANY APPLICATION SYSTEM INFORMATION AND NECESSARY INFORMATION ITEMS OF TRAINING COMPANY RECEPTION SYSTEM (INCLUDING DETERMINING SIMILARITY LEVEL IN DATA MINING METHOD, ETC.)
S51
TRAINING COMPANY RECEPTION SYSTEM INFORMATION
15
51
EXECUTION STAGE
PREPARATION STAGE
COURSE APPLICATION RECEPTION INDIVIDUAL CONVERSION TABLE
53
50
PROCESS BY COURSE APPLICATION RECEPTION INDIVIDUAL CONVERSION PROGRAM
S52
S4
CLIENT COMPANY COURSE APPLICATION PROCESS
S7
TRAINING COMPANY COURSE RECEPTION PROCESS

FIG. 22

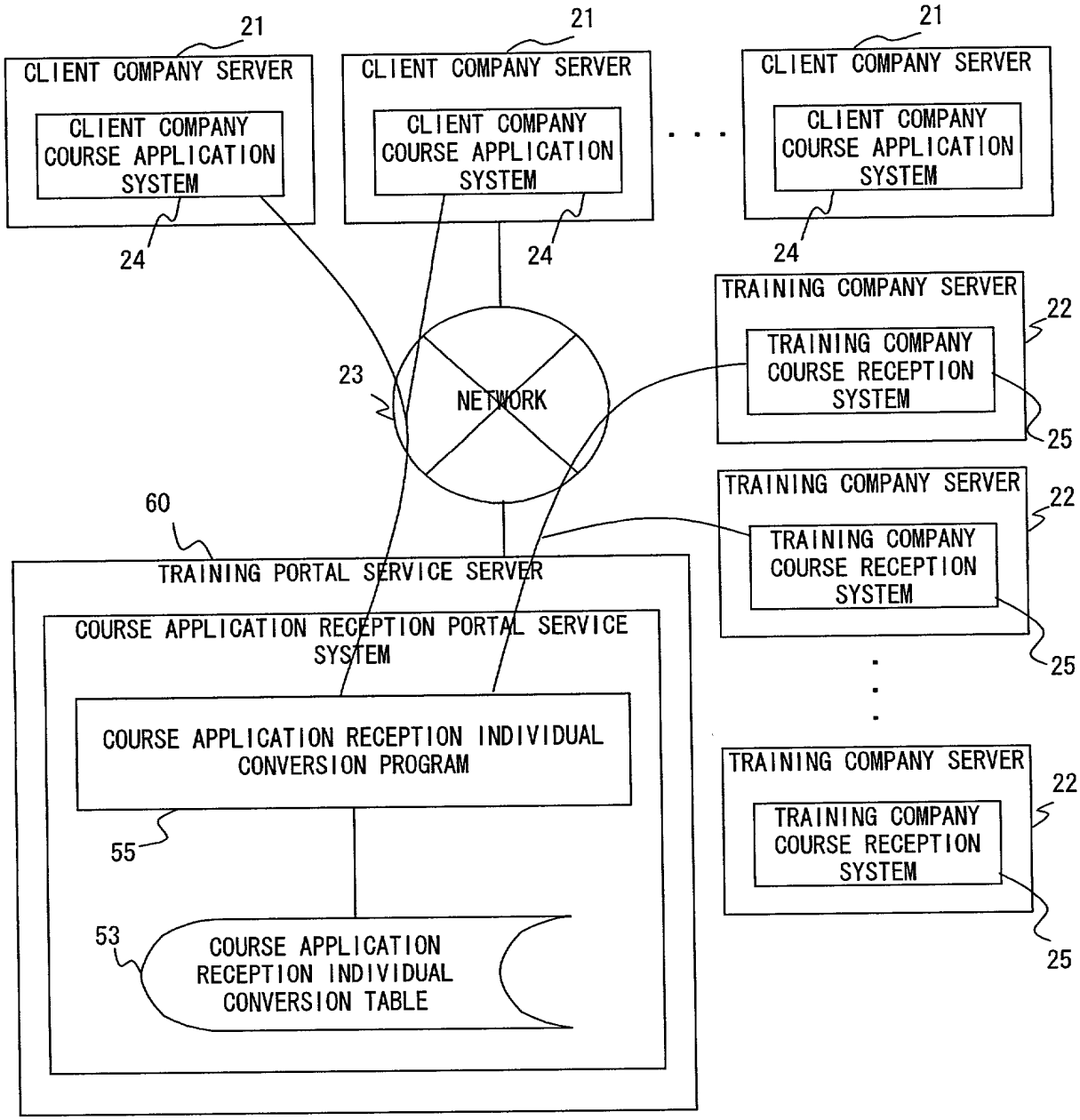
21
CLIENT COMPANY SERVER
CLIENT COMPANY COURSE APPLICATION SYSTEM
24
21
CLIENT COMPANY SERVER
CLIENT COMPANY COURSE APPLICATION SYSTEM
24
21
CLIENT COMPANY SERVER
CLIENT COMPANY COURSE APPLICATION SYSTEM
24
TRAINING COMPANY SERVER
22
TRAINING COMPANY COURSE RECEPTION SYSTEM
25
23
NETWORK
TRAINING COMPANY SERVER
22
TRAINING COMPANY COURSE RECEPTION SYSTEM
25
60
TRAINING PORTAL SERVICE SERVER
COURSE APPLICATION RECEPTION PORTAL SERVICE SYSTEM
COURSE APPLICATION RECEPTION INDIVIDUAL CONVERSION PROGRAM
55
53
COURSE APPLICATION RECEPTION INDIVIDUAL CONVERSION TABLE
TRAINING COMPANY SERVER
22
TRAINING COMPANY COURSE RECEPTION SYSTEM
25

FIG. 23

Document Processed

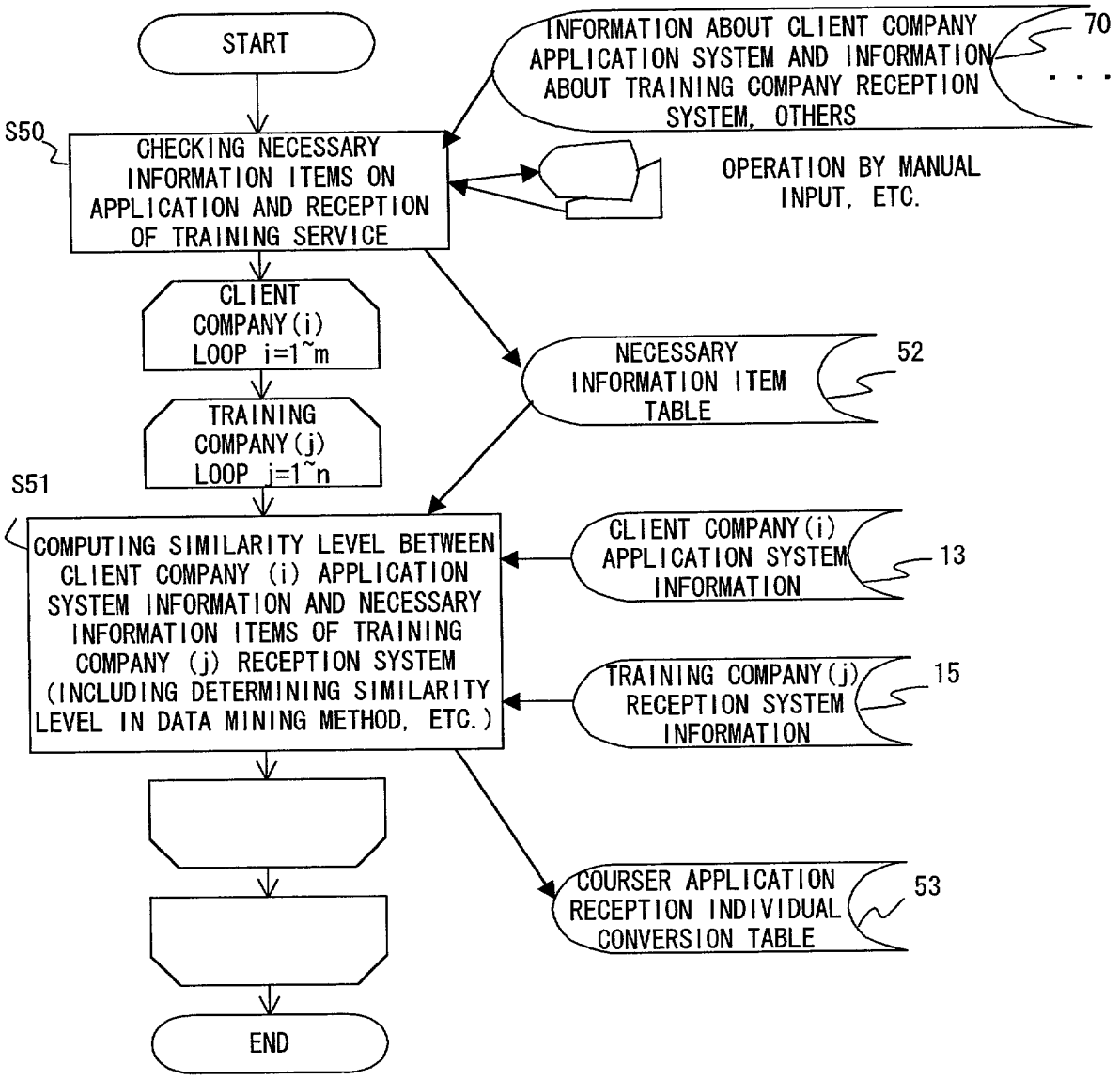

FIG. 24

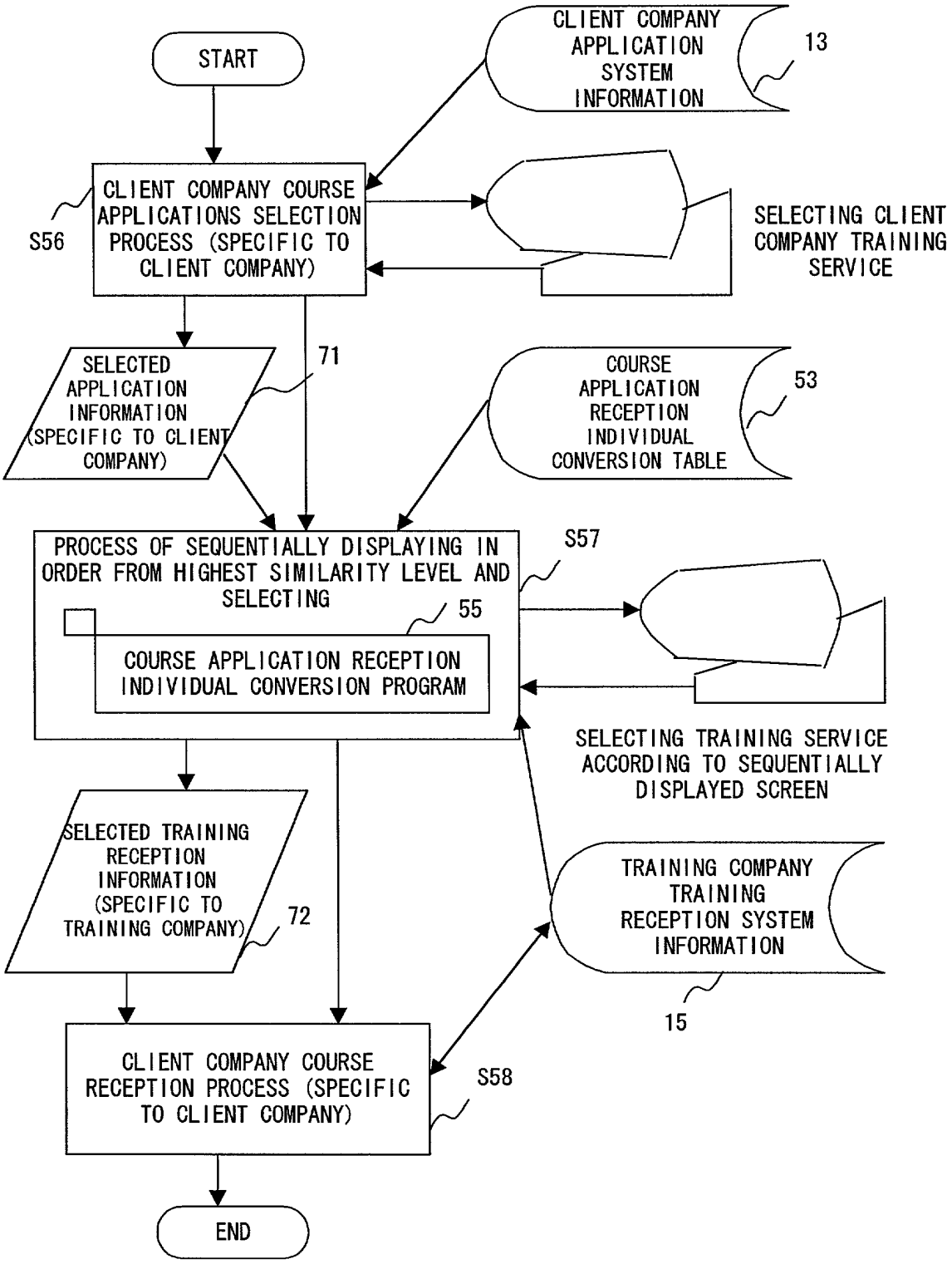
START
CLIENT COMPANY APPLICATION SYSTEM INFORMATION
13
CLIENT COMPANY COURSE APPLICATIONS SELECTION PROCESS (SPECIFIC TO CLIENT COMPANY)
S56
SELECTING CLIENT COMPANY TRAINING SERVICE
SELECTED APPLICATION INFORMATION (SPECIFIC TO CLIENT COMPANY)
71
COURSE APPLICATION RECEPTION INDIVIDUAL CONVERSION TABLE
53
PROCESS OF SEQUENTIALLY DISPLAYING IN ORDER FROM HIGHEST SIMILARITY LEVEL AND SELECTING
S57
55
COURSE APPLICATION RECEPTION INDIVIDUAL CONVERSION PROGRAM
SELECTING TRAINING SERVICE ACCORDING TO SEQUENTIALLY DISPLAYED SCREEN
SELECTED TRAINING RECEPTION INFORMATION (SPECIFIC TO TRAINING COMPANY)
72
TRAINING COMPANY TRAINING RECEPTION SYSTEM INFORMATION
15
CLIENT COMPANY COURSE RECEPTION PROCESS (SPECIFIC TO CLIENT COMPANY)
S58
END

FIG. 25

Patent Application Publication

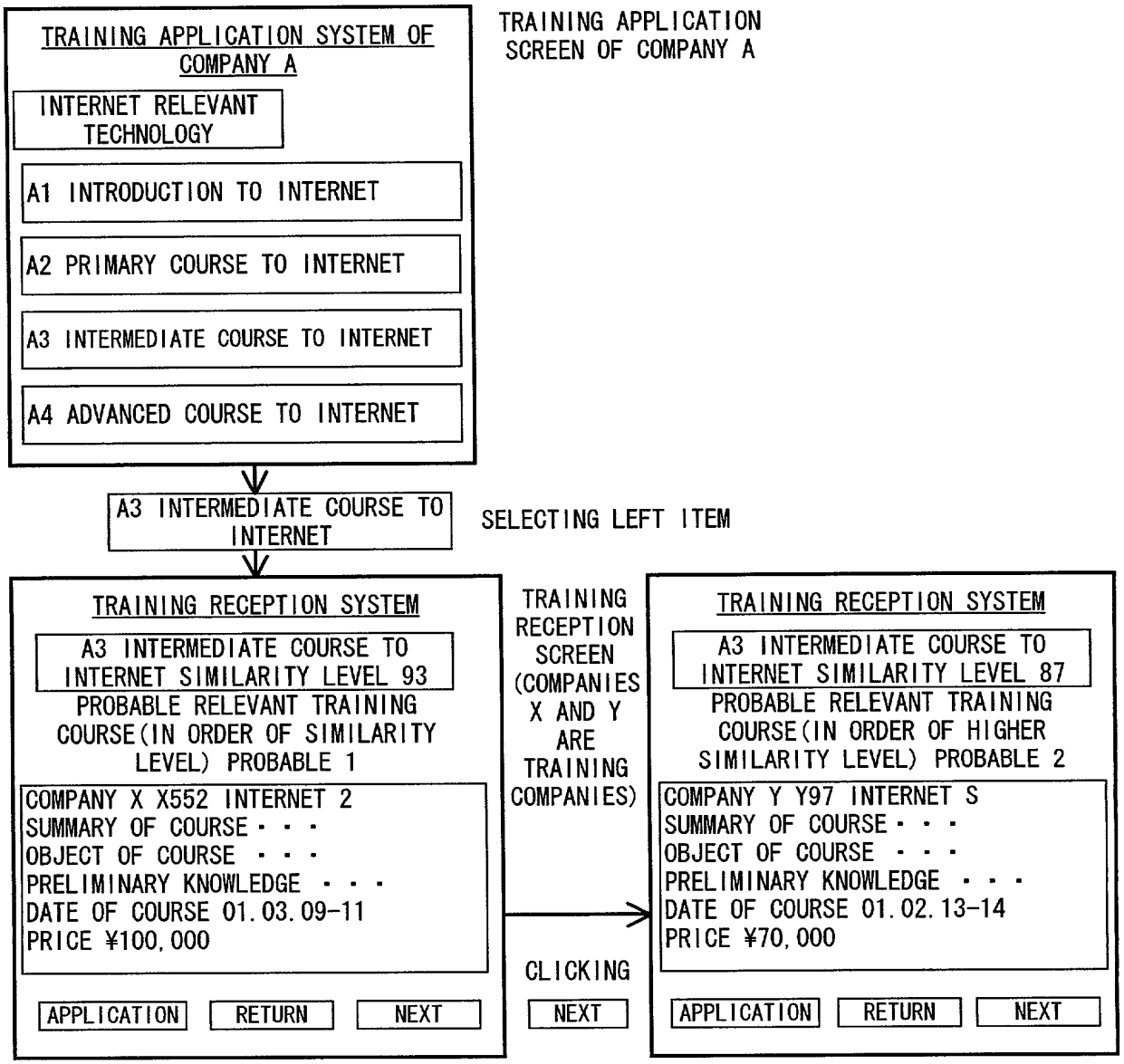

FIG. 26

TOKEN-2021-0193

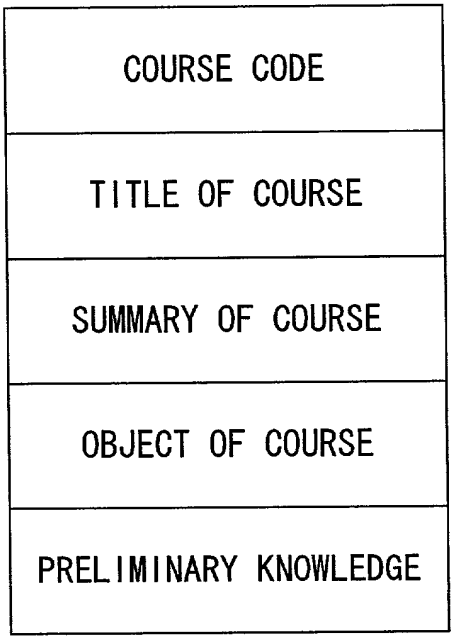

FIG. 27

NAME OF CLIENT COMPANY	CLIENT COMPANY COURSE CODE	NAME OF TRAINING COMPANY	TRAINING COMPANY COURSE CODE	SIMILARITY LEVEL	OTHERS
COMPANY A	A1	COMPANY Y	Y32	80	
	A3	COMPANY X	X552	93	
		COMPANY Y	Y97	87	
		COMPANY Z	Z1258	75	
COMPANY B	B9	COMPANY X	X328	91	

FIG. 28

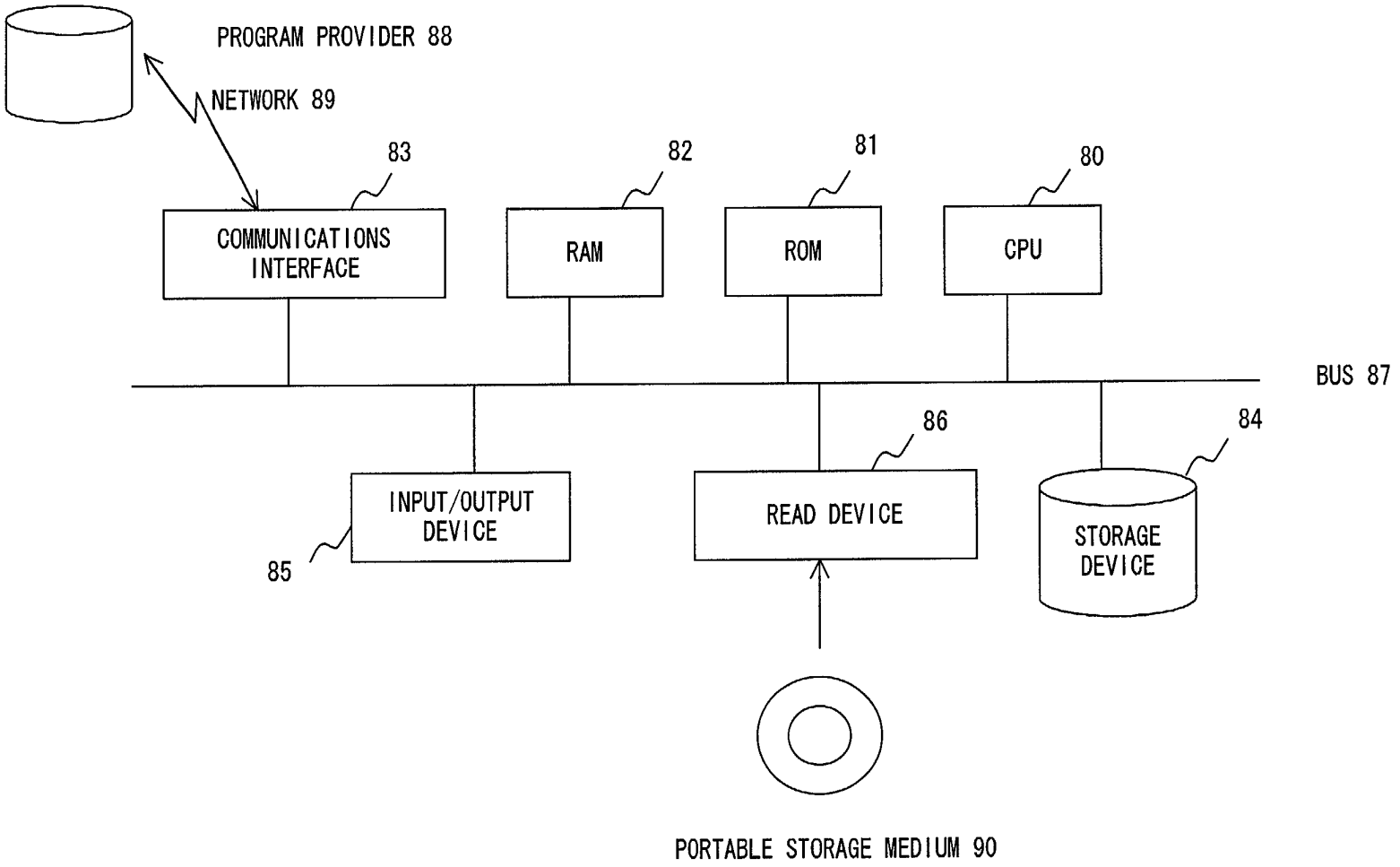
PROGRAM PROVIDER 88
NETWORK 89
83
82
81
80
COMMUNICATIONS INTERFACE
RAM
ROM
CPU
BUS 87
86
84
INPUT/OUTPUT DEVICE
85
READ DEVICE
STORAGE DEVICE
PORTABLE STORAGE MEDIUM 90

FIG. 29